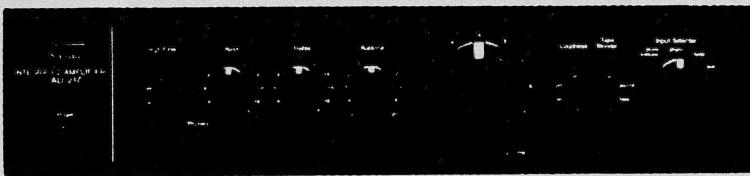


SERVICE MANUAL

INTEGRATED STEREO AMPLIFIER

SANSUI AU-217



SPECIFICATIONS

Power output

Min. RMS, both channels driven, from 20 to 20,000 Hz,
with no more than 0.06% total harmonic distortion
30 watts per channel into 8 ohms

Load impedance 8 ohms
Power bandwidth 20 to 20,000 Hz at or below
rated min. RMS power output
and total harmonic distortion

Total harmonic distortion less than 0.06% at or below
rated min. RMS power output

Intermodulation distortion (70 Hz: 7 kHz = 4:1 SMPTE
method) less than 0.06%

Frequency response (at 1 watt) 10 to 50,000 Hz +0.5 dB -1.5 dB

Damping factor approximately 80 at 8 ohms
load

RIAA curve deviation (PHONO)

. +0.5 dB - 0.5 dB
(30 to 15,000 Hz)

Input sensitivity and impedance (1 kHz, for rated power output)

PHONO 2.5 mV/47 kilohms
(Max. input capability; 180 mV at 1 kHz, less than
0.05% total harmonic distortion)

AUX, TAPE 150 mV/47 kilohms

Output level (1,000 Hz)

TAPE REC (pin jack) 150 mV

Channel separation (1 kHz, at rated power output)

PHONO better than 65 dB

AUX better than 68 dB

Hum and noise (short-circuit A-network)

PHONO 76 dB

AUX 94 dB

Controls

BASS +12 dB (50 Hz)

TREBLE +11 dB (15 kHz)

PHONO SUBSONIC -3 dB (13 Hz), 6 dB/oct

HIGH FILTER -3 dB (7 kHz), 6 dB/oct

LOUDNESS (-30 dB)

. 8 dB at 50 Hz

6 dB at 10 kHz

Power requirements

Power voltage 100, 120, 220, 240V (50/60 Hz)
120V (Usable 110 — 130V)
60 Hz (for U.S.A. and Canada
only)

Power consumption

Maximum consumption

. 280 watts

Rated consumption 145 watts 180 VA

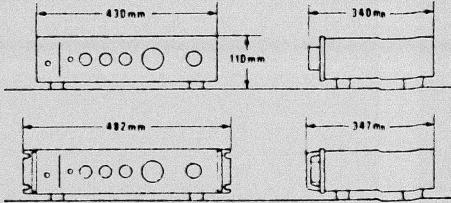
Dimensions 430 mm (16-15/16") W

110 mm (4-3/8") H

340 mm (13-3/8") D

Weight 8.6 kg (19.0 lbs) net

9.8 kg (21.6 lbs) packed

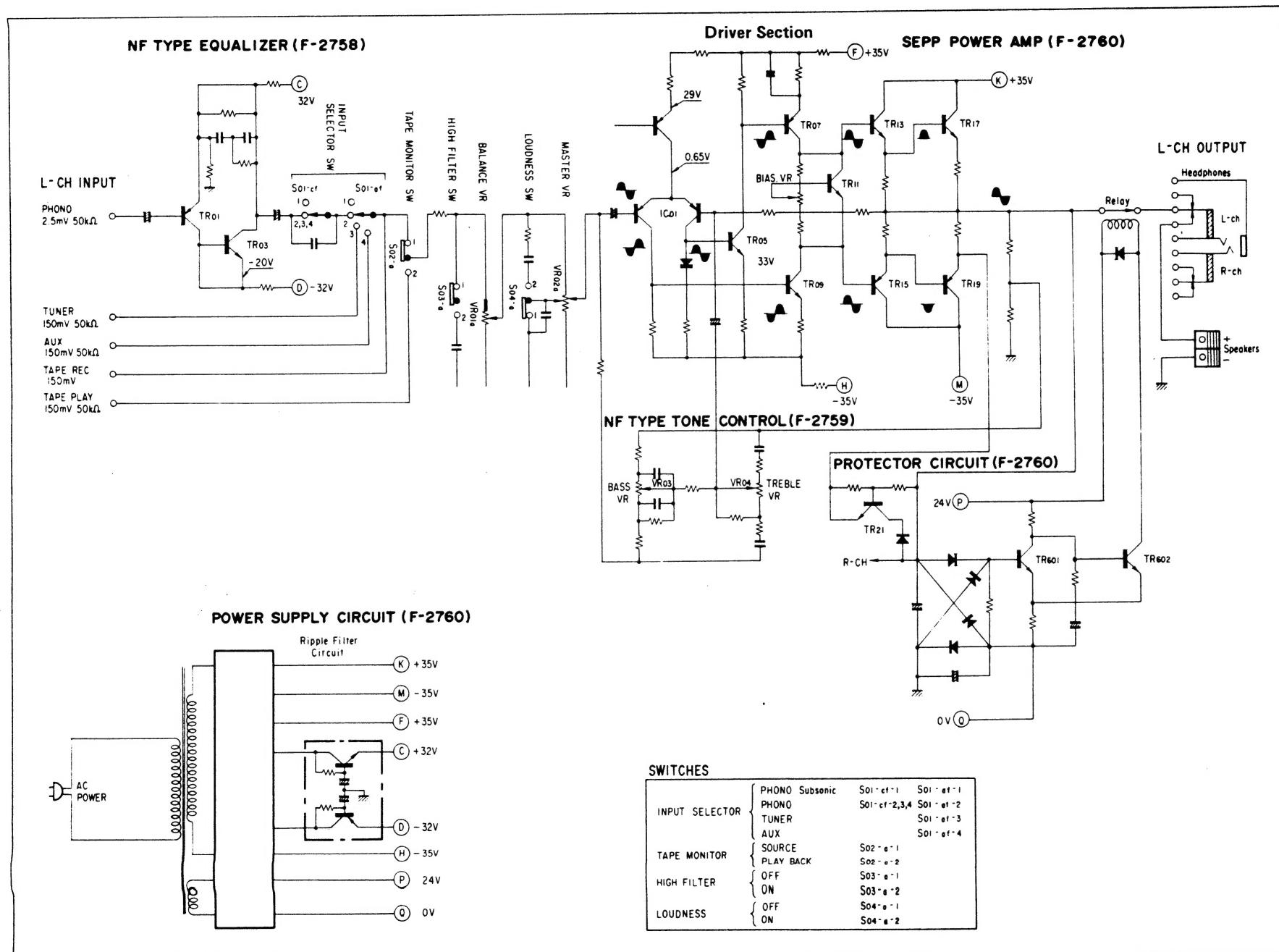


* Design and specifications subject to changes without notice for improvements.

Sansui

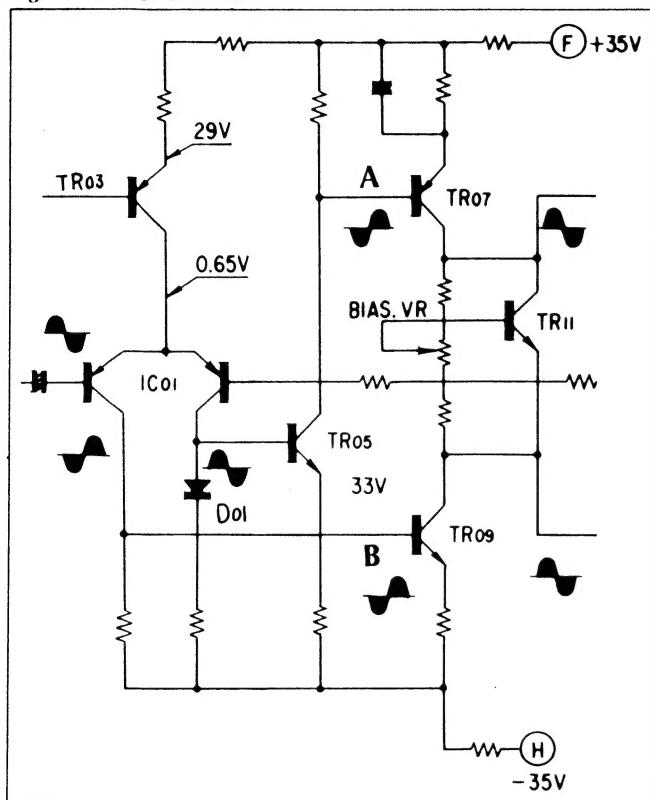
SANSUI ELECTRIC CO., LTD.

1. BLOCK DIAGRAM



2. OPERATION OF DRIVER SECTION

Fig. 2-1 Driver Section



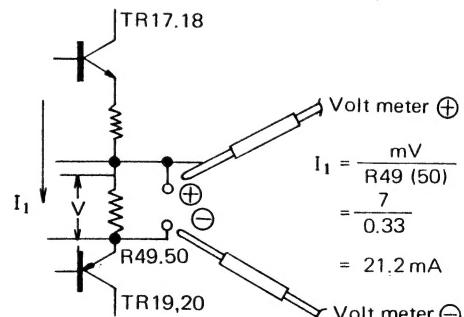
◆ The first stage on driver section employs a differential amplifier circuit, therefore one of two output signals from IC01 on the driver section is supplied to base of TR05 and the other is added to base of TR09.

The input phase of the current mirror circuit including TR05 and D01 is inverted by TR05 and its inverted signal is added to base of TR09. Since the input signals, A & B, as Fig. 2-1, of TR07 and TR09 are in same level and inphase, the function of this section is complete push-pull operation by which even harmonic distortion is extremely decreased.

3. ADJUSTMENT

1) Bias Current Adjustment (See the Picture of Top View on page 7)

(Measure output on both channel)



(L-CH....R49 and R-CH....R50)

(L-CH....TR17, TR19 and R-CH....TR18, TR 20)

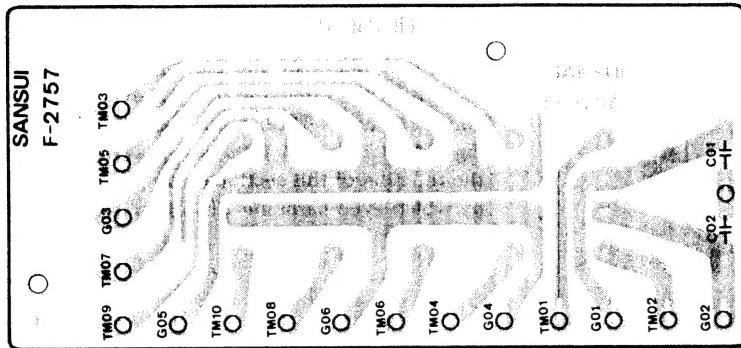
STEP	SUBJECT	EQUIPMENT	MEASURE OUTPUT	ADJUST	ADJUST FOR
1	Bias Current L-CH	DC Volt Meter	TP Terminal (+)(-) of F-2760	F-2760 VR01	DC 7mV ±0.5mV
2	Bias Current R-CH	DC Volt Meter	TP Terminal (+)(--) of F-2760	F-2760 VR02	DC 7mV ±0.5mV

4. PARTS LOCATION & PARTS LIST

Since some of capacitors and resistors are omitted from parts lists in this Service Manual, refer to the common parts list for capacitors & resistors which was appended previously to each Sansui Manual.

1) F-2757 Input Terminal Circuit Board (Stock No. 7595461)

Conductor Side

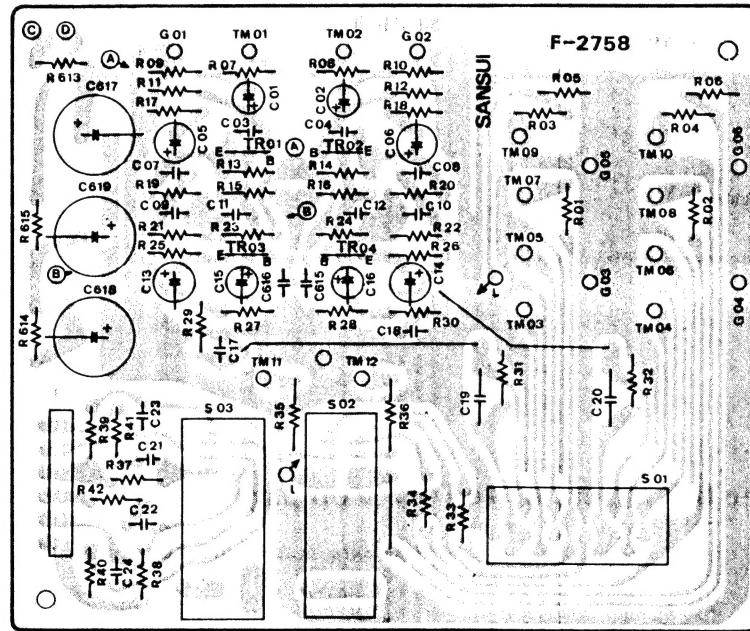


Parts List

Parts No.	Stock No.	Description		
C 01,02	0657473 2200510	47000 pF 10P	50V Input Terminal	C.C.

2) F-2758 Equalizer Circuit Board (Stock No. 7551191)

Conductor Side

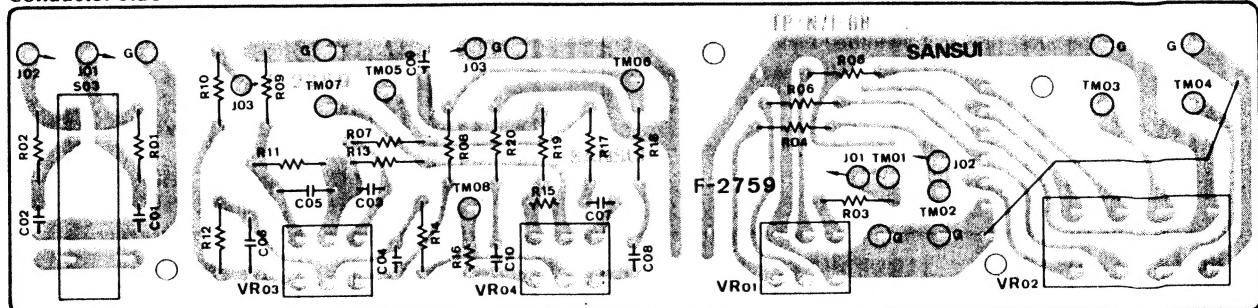


Parts List

Parts No.	Stock No.	Description
TR01,02	0300920,1	2SA/26 F.G
TR03,04	0306070,1	2SC1313 F.G
C 17,18	0620621	620pF 50V P.C.
C 21,22	0620391	390pF 50V P.C.
S 01	1102740	Rotary Switch, input selector
S 02	1171050	Lever Switch, tape monitor
S 03	1171020	Lever Switch, high filter

3) F-2759 Tone Control Circuit Board (Stock No. 7561971)

Conductor Side



Parts List

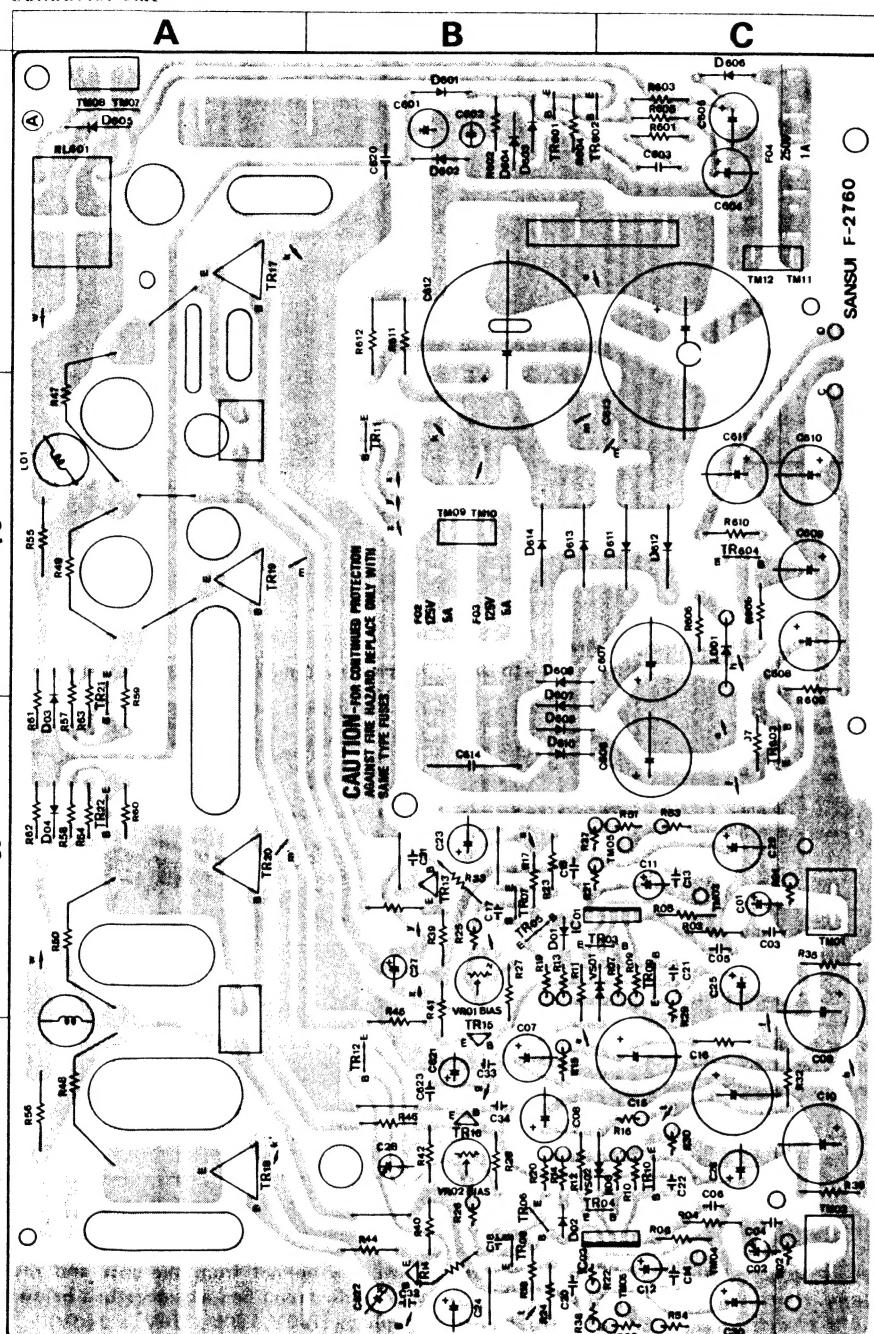
Parts No.	Stock No.	Description
VR01	1015270, 1	250 kΩ (M, N) x 2 Balance Volume
VR02	1011120, 1	250 kΩ (A) x 2 Main Volume

Parts No.	Stock No.	Description
VR03,04	1015260, 1	100 k Ω (C) x 2 Bass, Treble Volume

Parts No.	Stock No.	Description
S 04	1171020	Lever Switch , loudless

4) F-2760 Power Amplifier Circuit Board (Stock No. 7571791)

Conductor Side

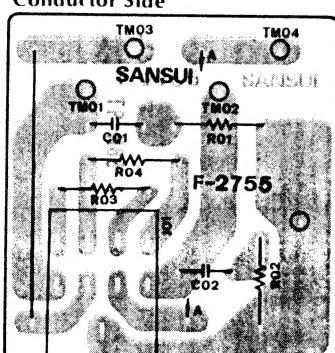


Parts List

Parts No.	Stock No.	Description
TR03, 04	0300470, 1	2SA726 (W) F.G
TR05, 06	0306270, 1	2SC1708 F.G.
TR07, 08	0300890, 1	2SA750 (3) E.U.
TR09, 10	0306290, 1	2SC1400 (II) E.U.
TR11, 12	0305731	2SC711 E
TR13, 14	0308481, 2	2SD358 D.E.
TR15, 16	0303311, 2	2SB528 D.E.
TR17, 18	0308541, 2	2SD188A R.Q.
TR19, 20	0303381, 2	2SB545A R.Q
TR21, 22	0305731, 2	2SC711 E.F.
TR601, 602	0306131, 2	2SC1364 6.7
TR603	0308520, 1	2SD438 D.E
TR604	0303360, 1	2SB560 D.E
IC 01, 02	0306290, 1	2SA799 IC
D 01 ~ 04	0311160	1S2473D
D 601 ~ 604	0310400	1N34A Diode
D 605 ~ 610	0310340	10D1 Diode
D 611 ~ 614	0311530	30D2 Diode
VS01, 02	0340120	VD1212 Varistor
C 05, 06	0621101	100 pF 50V P.C.
C 612, 613	0549111	6800 μ F 50V
C 614	0603227	0.022 μ F 125V M.C.
R 31, 32	0210820	82 Ω 1/2W N.I.R.
R 35, 36	0210820	82 Ω 1/2W N.I.R.
R 39 ~ 42	0191221	220 Ω 1/2W F.R.
R 43 ~ 46	0191689	6.8 Ω 1/2W F.R.
R 47 ~ 50	0132338	0.33 Ω 2W Ce.R
R 51, 52	0231302	3k Ω 1/2W M.R.
R 53, 54	0231271	270 Ω 1/2W M.R
R 55, 56	0103479	4.7 Ω 1/2W C.R.
R 606	0211222	2.2 k Ω 1W N.I.R.
R 609, 610	0210101	100k Ω 1/2W N.I.R.
R 611, 612	0103562	5.6 k Ω 1/2W C.R.
L 01, 02	4210290	RF Coil 1.5 μ H
RL601	1150400	Relay
VH01, 02	1035050	470Q B Bias Volume
F 02, 03	0432900	5A 125V AC Fuse
F 04	0432220	1A 250V AC Fuse
2030050		Transistor Socket
2310220		Fuse Holder (Large)
2410650		2P Pin Ass'y TYPE D
2410910		2P Pin Ass'y TYPE E
2410650		2P Pin Ass'y TYPE D

5) F-2755 Output Connection Circuit Board (Stock No. 7595471)

Conductor Side

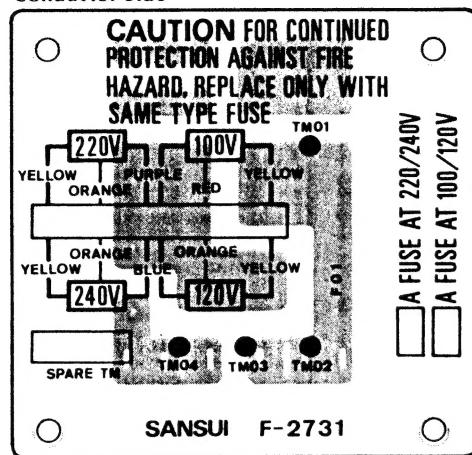


Parts List

Parts No.	Stock No.	Description
R 01, 02	0103100	10 Ω 1/2W C.R.
R 03, 04	0211221	220 Ω 1W N.I.R.
J 01	2430350	Jack, headphone

6) F-2731 Voltage Selector Circuit Board (Stock No. 7595481)

Conductor Side



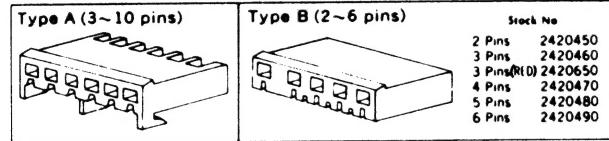
Parts List

Parts No.	Stock No.	Description
F 01	0432260 2310220	3A 250V AC Fuse Fuse Holder (Large)

● Figures

Connectors & Pin Ass'y

Connectors

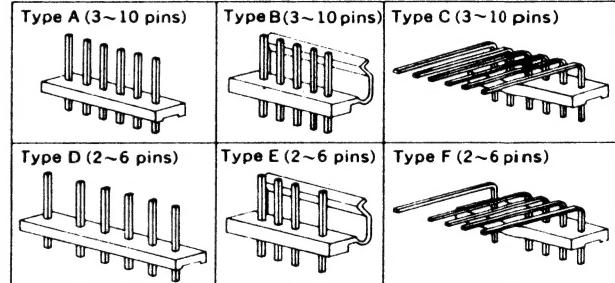


NOTE: Since stock number of female connectors (type B) with wires are not shown in each parts list of Complete circuit board, please refer to the above parts list when ordering the connector.

Abbreviations

C.R.	: Carbon Resistor	E.C.	: Electrolytic Capacitor
S.R.	: Solid Resistor	BP.E.C.:	: Bi-Polar Electrolytic Capacitor
Ce.R.	: Cement Resistor	C.C.	: Ceramic Capacitor
M.R.	: Metal Film Resistor	M.I.C.	: Mica Capacitor
F.R.	: Fusing Resistor	O.C.	: Oil Capacitor
N.I.R.	: Non-Inflammable Resistor	P.C.	: Polystyrene Capacitor
M.C.	: Mylar Capacitor	T.C.	: Tantalum Capacitor

Pin Ass'y



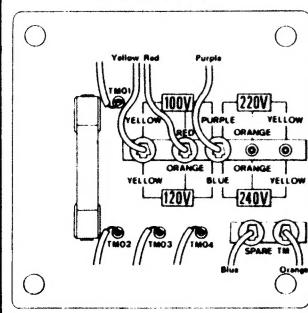
NOTE:

◊ Changing Power Supply Voltage:

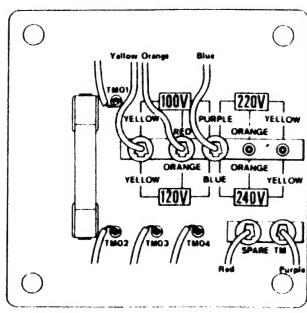
Your unit is adjusted to operate at the correct power supply voltage of your area prior to shipment from our factory. If you move to an outside country after purchasing it or send it as a gift to a friend living in an area where the voltage is different, it may be necessary to operate at the correct power supply voltage.

◊ When necessary, remove the bonnet from the unit and reconnect leads from power supply circuit board as described below according to the required voltage (100V, 120V, 220V or 240V).

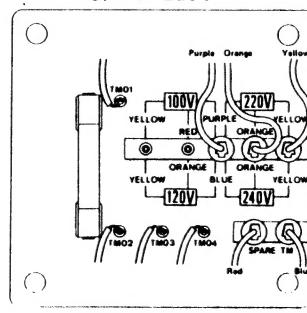
1) For 100V



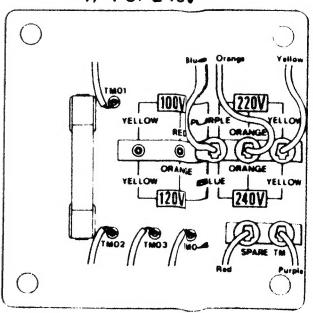
2) For 120V

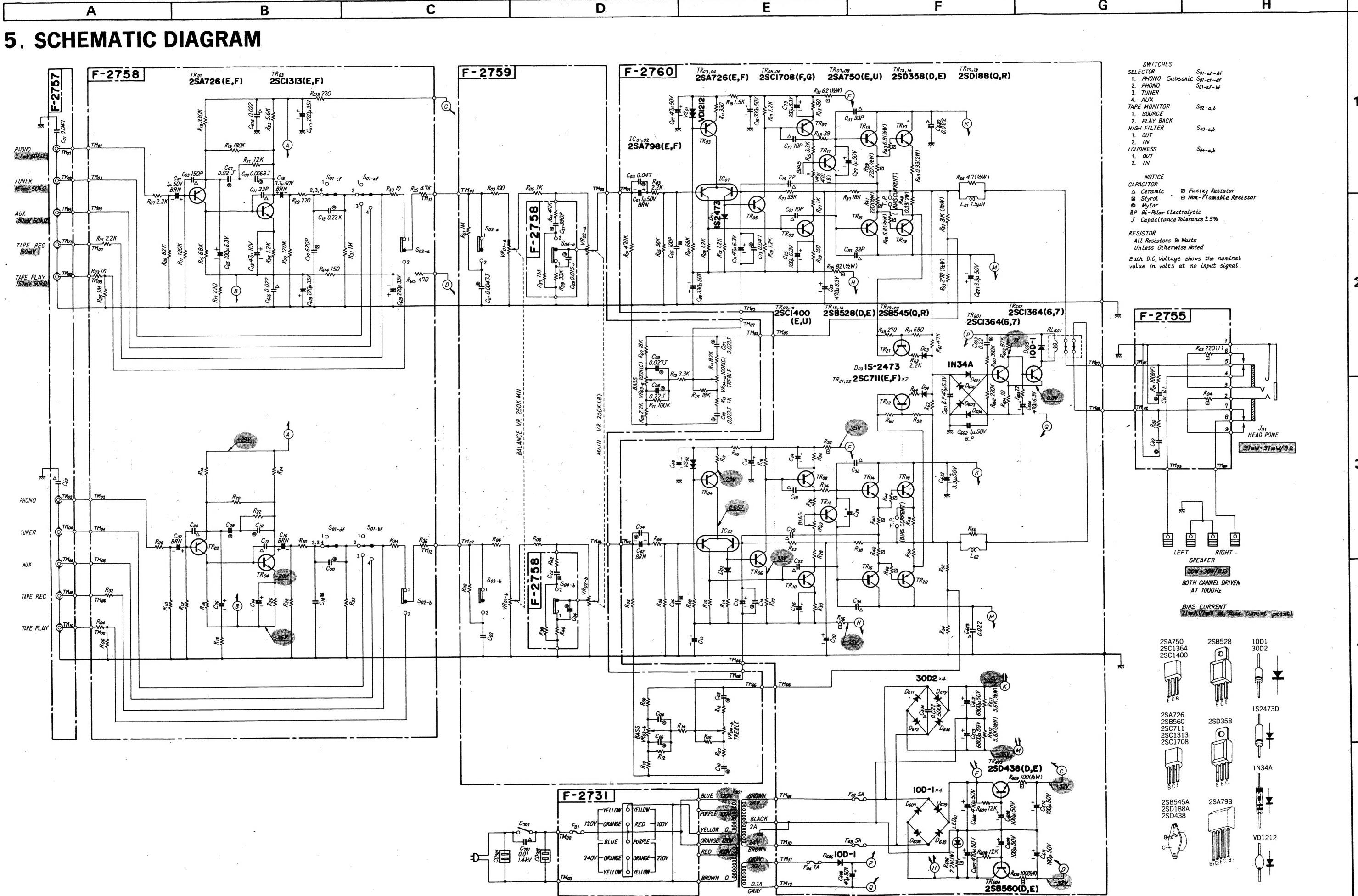


3) For 220V



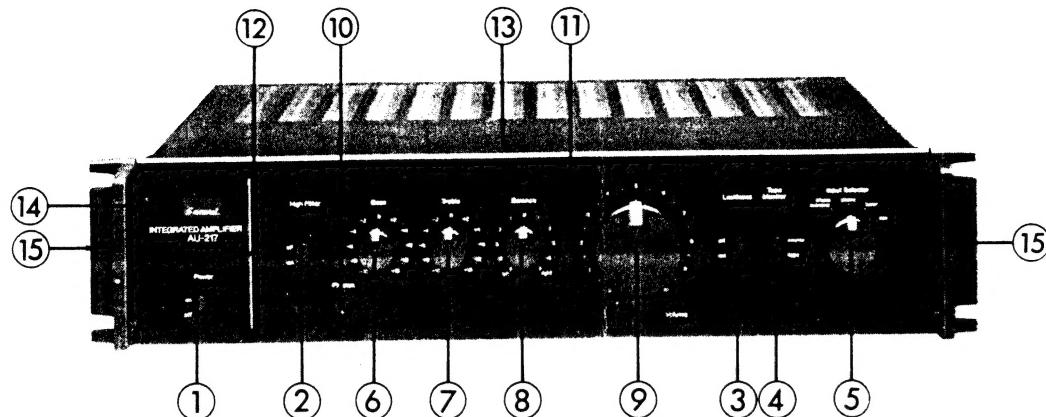
4) For 240V



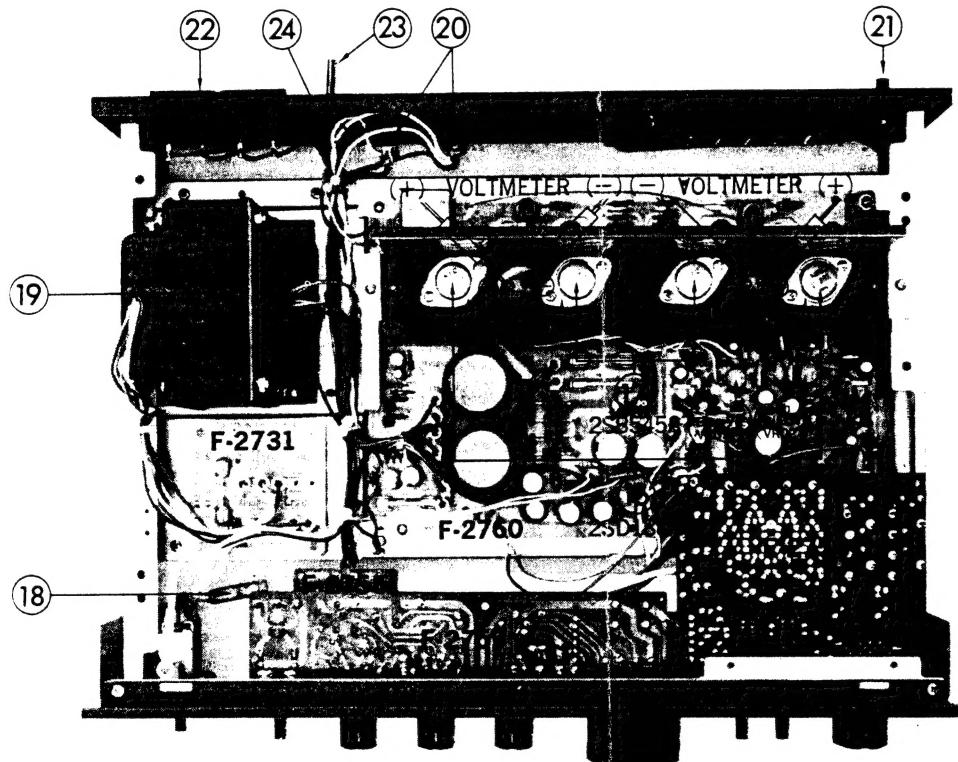


6. OTHER PARTS

Front View



Top View

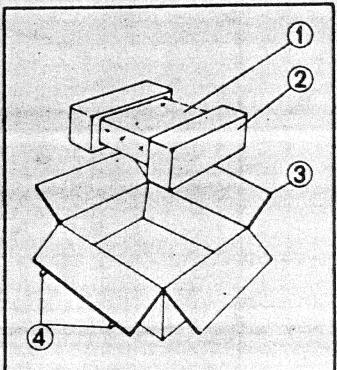


Parts List

Parts No.	Stock No.	Description	Parts No.	Stock No.	Description	Parts No.	Stock No.	Description
1	532661	Lever Switch Knob, power	5048020		Masking Sheet (D)	17	0303381,2	2SB545A (R, Q) Transistor
	1171640	Lever Switch, power	5289230		Plate (M7), volume	18	0659801	0.01μF 150V C.C.
2	532661	Lever Switch Knob, high filter	5318930		S-14 TY Knob, balance volume	19	4002680	Power Transformer
	1171020	Lever Switch, high filter	1015270, 1		250kΩ (MN) x 2 Balance Volume	20	2450060	AC Outlet
3	532661	Lever Switch Knob, loudness	5048020		Masking Sheet (D)	21	5626172	AC Outlet Insulation Sheet
	1171020	Lever Switch, loudness	5289230		Plate (M7), volume	22	2230150	Ground Terminal
4	5326611	Lever Switch Knob, tape monitor	5318910		Volume Knob	23	2290190	Speaker Terminal
	1171050	Lever Switch, tape monitor	1011120, 1		250kΩ x 2 Volume	24	3800010	Power cord
5	5318925	M-10 TY Knob, input selector	5048050		Masking Sheet (A)	3800014		Power cord
	1102740	Rotary Switch, input selector	5288960		Plate (M8), volume	3910600		Strain Relief (5.2φ)
6	5048040	Masking Sheet (B)	2430350		Head Phone Jack	5058770		Bottom Plate
	5318930	S-14 TY Knob, bass volume	7007670		Front Panel Ass'y	5507070		Leg
7	1015260, 1	100kΩ (C) x 2 Bass Volume	0319120		LED	5109928		B TYPE Screw M4 x 18 (Black)
	5048020	Masking Sheet (D)	5006690		Bonnet	5109929		W TYPE Screw M4 x 8
8	5289230	Plate (M7), volume	5336680		Sansui Mark	5120561		P TYPE Washer M4 x 0.8 (Black)
	1015260, 1	100kΩ (C) x 2 Treble Volume	5396350		Lock-mount Adaptor (each)	5288721		Plate, TR11, TR12 on F-2760
9	5318930	S-14 TY Knob, treble volume	0308541, 2		2SD188A (R, Q) Transistor			
	1015260, 1	100kΩ (C) x 2 Treble Volume						

7. PACKING LIST

Parts No.	Stock No.	Description
1	9116153	Vinyl Cover (Small)
2	9028080	Stylofoam Packing
3	9009780	Carton Case
4	5996080	Curl Stopper



8. ACCESSORY PARTS LIST

Parts No.	Stock No.	Description
	9203120	Operating Instructions
	9237610	Schematic Diagram
	5396350	Rack-mounting Adaptor (each)
	9116730	Vinyl Bag For Rack-mount-Adaptor
	5192082	Hexagon Wrench (1.5 mm)
	9116580	Vinyl Bag For Wrench

MEMO

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Sansui